

858.1002

IN THE CLAIMS:

Please amend claim 50 as indicated below.

This listing of claims below will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-34. (Canceled)

35. (Previously Presented) A display device comprising:

- a first light-transmissive sheet having an outer surface and an inner surface;
- a second light-transmissive sheet having an outer surface and an inner surface;
- wherein one or both of said inner surfaces of said light-transmissive sheets are hydrophobic;
- one or more measures of a light-transmissive liquid;
- a sealed space between the inner surface of the first sheet and the inner surface of the second sheet, the liquid being enclosed within said sealed space;
- a plurality of multi-colored light filters comprising a plurality of differently-colored elements being associated with each measure of liquid;
- a plurality of electrical elements, located adjacent to, but electrically insulated from, each liquid measure associated therewith;
- a power supply; and
- a microprocessor or other suitable means coupled to the power supply and the electrical elements, capable of selectively controlling the electrical potential delivered to each of said electrical elements so as to create an electric field affecting the associated measure of liquid, thereby inducing a change in the location or shape of said affected liquid measures, and thereby refracting and modulating the direction of light passing through said liquid measures to be directed onto or through selected colored areas of said multi-colored light filters.

36. (Previously Presented) The device of claim 35, further incorporating a light source in the device.

858.1002

37. (Previously Presented) The device of claim 36, wherein one of the sheets is light reflecting, and the plurality of multi-colored light filters are located closer to the light source than is the light-reflecting material.

38. (Previously Presented) The device of claim 35, wherein one of the sheets is light reflecting, and the plurality of multi-colored light filters are located closer to an external light source than is the light-reflecting material.

39. (Previously Presented) The device of claim 35, further incorporating a second light transmissive liquid which is immiscible with the first liquid, where one liquid is polar, and the other liquid is non-polar.

40. (Previously Presented) The device of claim 35, wherein the hydrophobic properties of one or both inner surfaces immediately adjacent to each liquid measure vary, so that each liquid measure will, in the absence of an electric field inducing a different effect, and within the scope of movement permitted it, seek to locate itself adjacent to the area of lowest hydrophobic properties, but wherein an electrical field of variable strength can be used to act in opposition to the influence of said hydrophobic properties, and to induce a controllable change of shape or location of the liquid measure so as to refract light onto selected regions of adjacent multi-colored filters.

41. (Previously Presented) The device of claim 35, wherein a resistant electrode is located adjacent to, but electrically insulated from, each measure of liquid, so that the application of electrical potential to said electrode can induce an electric field of variable strength across different locations proximate to said liquid measures, said electric field affecting said measure of liquid so as to controllably induce a change of shape or location in the measure of liquid, which is simultaneously being affected by the hydrophobic properties of the inner surface adjacent to it, as well as by the electric field affecting it.

858.1002

42. (Previously Presented) The device of claim 35, wherein the perimeter limiting the scope of movement of each measure of liquid is achieved by treating the surface of one or more of said inner surfaces of said sheets adjacent to each of said liquid measures, so that the hydrophobic properties of said perimeter area is greater than those existing elsewhere within the perimeter on the inner surfaces of said sheets.

43. (Previously Presented) The device of claim 35, further comprising a stylus having an electrical switch electrically coupled to and capable of individually activating each of the plurality of electrical elements, whereby activation of the stylus switch and movement of the stylus in proximity of the first sheet will cause any particular measure of liquid to move to a position such that different colors may selectively be displayed.

44. (Previously Presented) The device of claim 35, further comprising a stylus having an electrical switch electrically coupled to the microprocessor and capable of individually activating each of the plurality of electrical elements, whereby activation of the stylus switch and movement of the stylus in a proximity of the first sheet will cause each of the plurality of measures of liquid to move to a position such that light passing through said liquid measures will be refracted onto a selected colored region of the multi-colored filter array, and thereby display that color to the observer of the device.

45. (Previously Presented) The device of claim 36, wherein said device comprises an electric lamp, said device further comprising a means of dynamically changing the color of the light emitted by the lamp.

46. (Previously Presented) The device of claim 36, wherein a multi-colored light filter is not employed, and wherein the function of the liquid measures and their controlling means is only to refract the light passing through the system so as to controllably modulate the direction in which the light is emitted from the lamp.

47. (Previously Presented) A display device comprising:
a first light-transmissive sheet having an outer surface and an inner surface;

858.1002

a second light-transmissive sheet having an outer surface and an inner surface;
wherein one or both of said inner surfaces of said light-transmissive sheets are hydrophobic;
one or more measures of a light-transmissive liquid;
a sealed space between the inner surface of the first sheet and the inner surface of the second sheet, the liquid being enclosed within said sealed space;
a plurality of multi-colored light filters comprising a plurality of differently-colored elements being associated with each measure of liquid;
a plurality of electrical elements, located adjacent to, but electrically insulated from, each liquid measure; and
a power supply; and
a microprocessor or other suitable means coupled to the power supply and the electrical elements, capable of selectively controlling the electrical potential delivered to each of said electrical elements so as to create an electric field affecting each measure of liquid, thereby inducing a change in the location or shape of said affected liquid measures, and thereby causing light passing through said liquid measures to be directed onto or through selected colored areas of said multi-colored light filters;
wherein the hydrophobic properties of one or both inner surfaces immediately adjacent to each liquid measure vary, so that each liquid measure will, in the absence of an electric field inducing a different effect, and within the scope of movement permitted it, seek to locate itself adjacent to the area of lowest hydrophobic properties, but wherein an electrical field of variable strength can be used to act in opposition to the influence of said hydrophobic properties, and to induce a controllable change of shape or location of the liquid measure so as to refract light onto selected regions of adjacent multi-colored filters.

48. (Previously Presented) A display device comprising:

a first light-transmissive sheet having an outer surface and an inner surface;
a second light-transmissive sheet having an outer surface and an inner surface;
wherein one or both of said inner surfaces of said light-transmissive sheets are hydrophobic;
one or more measures of a light-transmissive liquid;

858.1002

a sealed space between the inner surface of the first sheet and the inner surface of the second sheet, the liquid being enclosed within said sealed space;

a plurality of multi-colored light filters comprising a plurality of differently-colored elements being associated with each measure of liquid;

a plurality of electrical elements, located adjacent to, but electrically insulated from, each liquid measure; and

a power supply; and

a microprocessor or other suitable means coupled to the power supply and the electrical elements, capable of selectively controlling the electrical potential delivered to each of said electrical elements so as to create an electric field affecting each measure of liquid, thereby inducing a change in the location or shape of said affected liquid measures, and thereby causing light passing through said liquid measures to be directed onto or through selected colored areas of said multi-colored light filters;

wherein a resistant electrode is located adjacent to, but electrically insulated from, each measure of liquid, so that the application of electrical potential to said electrode can induce an electric field of variable strength across different locations proximate to said liquid measures,

said electric field affecting said measure of liquid so as to controllably induce a change of shape or location in the measure of liquid, which is simultaneously being affected by the hydrophobic properties of the inner surface adjacent to it, as well as by the electric field affecting it.

49. (Previously Presented) A display device comprising:

a first light-transmissive sheet having an outer surface and an inner surface;

a second light-transmissive sheet having an outer surface and an inner surface;

wherein one or both of said inner surfaces of said light-transmissive sheets are hydrophobic;

one or more measures of a light-transmissive liquid;

a sealed space between the inner surface of the first sheet and the inner surface of the second sheet, the liquid being enclosed within said sealed space;

a perimeter limiting the scope of movement of each measure of liquid, achieved by treating the surface of one or more of said inner surfaces of said sheets adjacent to each of said

858.1002

liquid measures, so that the hydrophobic properties of said perimeter area is greater than those existing elsewhere within the perimeter on the inner surfaces of said sheets;

a plurality of multi-colored light filters comprising a plurality of differently-colored elements being associated with each measure of liquid;

a plurality of electrical elements, located adjacent to, but electrically insulated from, each liquid measure; and

a power supply; and

a microprocessor or other suitable means coupled to the power supply and the electrical elements, capable of selectively controlling the electrical potential delivered to each of said electrical elements so as to create an electric field affecting each measure of liquid, thereby inducing a change in the location or shape of said affected liquid measures, and thereby causing light passing through said liquid measures to be directed onto or through selected colored areas of said multi-colored light filters.

50. (Currently Amended) A display device comprising:

a first light-transmissive sheet having an outer surface and an inner surface;

a second light-transmissive sheet having an outer surface and an inner surface;

wherein one or both of said inner surfaces of said light-transmissive sheets are hydrophobic;

one or more measures of a light-transmissive liquid;

a sealed space between the inner surface of the first sheet and the inner surface of the second sheet, the liquid being enclosed within said sealed space;

a plurality of multi-colored light filters comprising a plurality of differently-colored elements being associated with each measure of liquid;

a plurality of electrical elements, located adjacent to, but electrically insulated from, each liquid measure; and

a power supply;

a light source; and

a microprocessor or other suitable means coupled to the power supply and the electrical elements, capable of selectively controlling the electrical potential delivered to each of said electrical elements so as to create an electric field affecting each measure of liquid, thereby

858.1002

inducing a change in the location or shape of said affected liquid measures, and thereby refracting light passing through said liquid measures so as to controllably modulate the direction in which the light is emitted from the lamp to be directed onto or through selected colored areas of said multi-colored light filters.

51. (Previously Presented) The device of claim 35, wherein the effect of the electric field affecting on the associated measure of liquid is an electrowetting effect.